# HDMI/Audio over CAT5e/6/7 Receiver/Splitter # 15375



## Operation Manual

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## Introduction

This HDMI and Audio over Single CAT5e/6/7 Receiver/Splitter can receive uncompressed audio/video and data over a single run of CAT5e/6/7 cable, from a Transmitter, up to distances of 100m. It has the added benefit of simultaneous dual HDMI outputs with audio de-embedding to a balanced or digital coaxial audio output and 2 bi-directional LAN serving connections, allowing devices such as Smart TVs or games consoles to share a Internet connection. The unit has a bidirectional PoC (Power over Cable) function that can power or be powered by a compatible transmitter allowing for greater flexibility in installations

## Features

- Supports full range HDTV and PC output resolutions up to 4K2K and WUXGA (RB)
- Receive uncompressed data over a single 100 m/328 ft CAT5e/6/7 cable
- 5Play™ convergence: Video, Audio, LAN, Bidirectional PoC & Control (IR & RS-232 bypass)
- Supports bidirectional IR, Remote control and RS-232 (bypass)
- Provide with 24V DC power to or received from compatible PoC Transmitter through CAT5e/6/7
- Supports Ethernet transmission rate up to 100Mbps
- Supports Balanced analog audio output (R/L) and HDMI input audio sampling rate up to 192kHz
- Support coaxial digital audio up to 192kHz

Note:
1.The PoC function is designed for powering compatible Transmitter units only—non-PoC Transmitter will need their own power supply. Transmitters of another brand may not be compatible.
2.DO NOT connect the CAT5e/6/7 port with Transmitter's LAN/ CONTROL port. Doing so may trigger power shoot down and ruin the device

## Applications

- Extending incoming signal from CAT5e/6/7 to HDMI outputs
- Extending incoming signal from CAT5e/6/7 to both analog and digital audio outputs
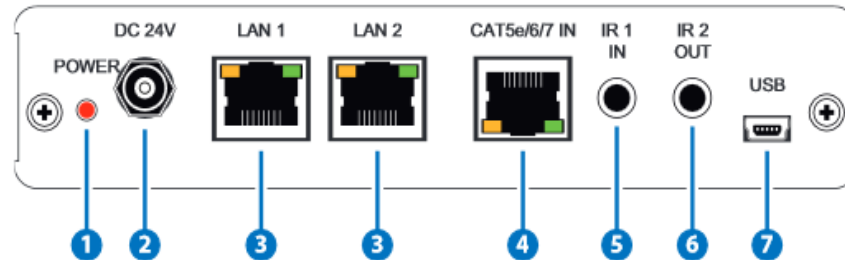- Lecture room/Showroom/Meeting room/Classroom display and control

## System Requirements

HDBaseT compatible Transmitter input and output display with HDMI input jack

**Front Panel**



**1．Power LED:**
This LED will illuminate when the device is connected to a power supply.
**2．DC 24V:**
Plug the 24 V DC power supply into the unit and connect the adaptor to an AC outlet. Only one side of power is needed to activate both Transmitter and Receiver when both obtain the PoC function.
**3．LAN 1/2:**
Connect to an active network for LAN sharing of a total transmission rate up to 100Mbps. Or when a compatible LAN equipped Transmitter is connected to an active network, this allows the network access (including internet access if available) to be shared between the Transmitter and Receiver. Connect any Ethernet equipped device e.g. a Smart TV or games console to the LAN port for that device to share the network internet access.
**Note:**
DO NOT connect this slot with any of the CAT5e/6/7 port.
Doing so may trigger power shoot down and ruin the device.
**4．CAT5e/6/7 IN:**
Connect from the Transmitter unit with a Single CAT5e/6 cable for receiving all data signals.
**5．IR IN:**
Connect to the supplied IR Receiver cables for IR signal reception. Ensure that remote being used is within the direct line-of-sight of the IR Extender.
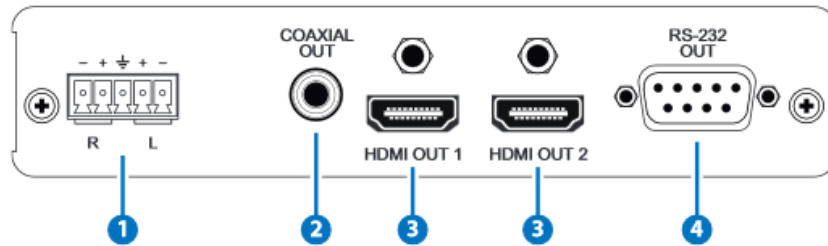**6．IR OUT:**
Connect to the supplied IR Blaster cable for IR signal transmission. Place the IR Blaster in direct line-of-sight of the equipment to be controlled.
**7．USB:**
This port is reserved for firmware update only.

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**Back Panel**



1． **Balanced Analog R/L OUT:**
Connect to an amplifier or active speaker with 3.5mm terminal block jack for audio output.
2． **COAXIAL OUT:**
Connect to an amplifier or active speaker with coaxial cable for audio output.
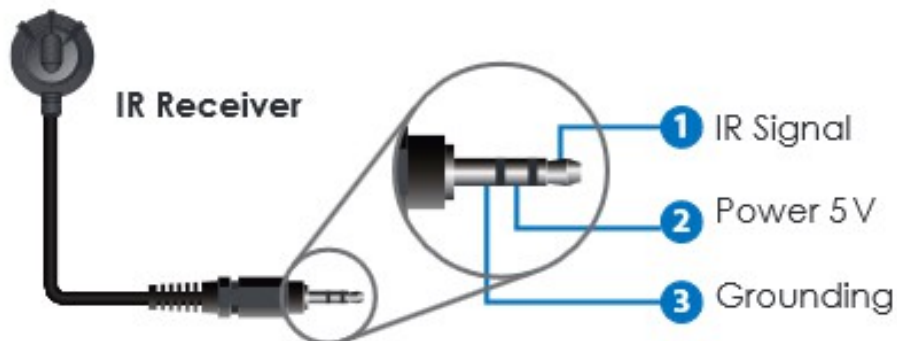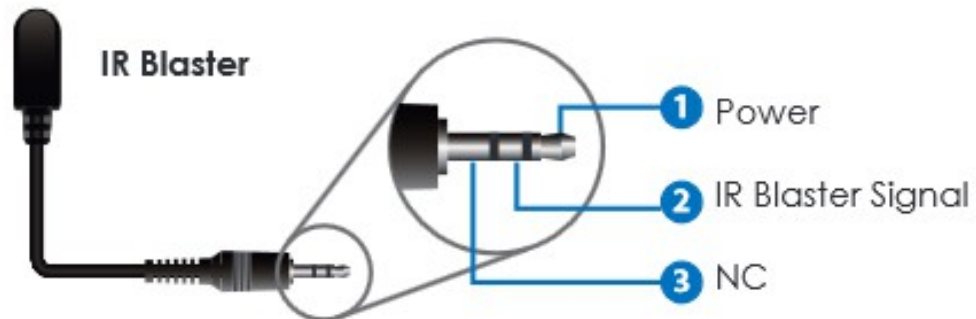3． **HDMI OUT 1/2:**
These slots are to connect with HDMI TV/Monitor for output image display.
4． **RS-232 OUT:**
This slot is to connect with D-Sub 9-pin cable from device equipment for receiving RS-232 commands

**IR Cable
Pin Assignments**



IR Blaster
1 Power
2 IR Blaster Signal
3 NC



IR Receiver
1 IR Signal
2 Power 5 V
3 Grounding

**D-Sub 9 Pin Definition**

| PIN | DEFINE TX/RX |
|:---:|:---:|
| 1 | N/C |
| 2 | TxD/RxD |
| 3 | RxD/TxD |
| 4 | N/C |
| 5 | GND |
| 6 | N/C |
| 7 | N/C |
| 8 | N/C |
| 9 | N/C |

**Specifications**

| | |
|---|---|
| **Ethernet Speed** | 100 Mbps |
| **Video Bandwidth** | 300MHz / 9Gbps |
| **Input Ports** | 1x CAT5e/6/7, 1 x IR Extender |
| **Output Ports** | 2 x HDMI, 1 x Coaxial, 1 x Balanced Analog (R/L), 1×IR Blaster, 1 x RS-232, 2×LAN |
| **CAT5e/6/7 Output Cable Distance** | Up to 100 Meters |
| **HMDI Input/Output Cable Distance** | Up to 10 Meters@1080p or 5Meters@4K2K |
| **HDMI output Resolution** | Up to 4K2K@24/25/30 & 50/60 YUV_420 |
| **Audio Sampling Rate** | Up to 96 kHz / Balanced Analog Up to 192 kHz / Coaxial & HDMI |
| **IR Frequency** | 30~50 kHz |
| **ESD Protection** | Human body model: ±8kV (air-gap discharge) ±6kV (contact discharge) |
| **Dimensions (mm)** | 145 (W) x 115 (D) x 30(H)/Jack Excluded 145 (W) x 128 (D) x 30(H)/Jack Included |
| **Weight (g)** | 394 |
| **Chassis Material** | Aluminum |
| **Silkscreen Color** | Black |
| **Operating Temperature** | 0℃ ~ 40℃ / 32℉ ~ 104℉ |
| **Storage Temperature** | -20℃ ~ 60℃ / -4℉ ~ 140℉ |
| **Relative Humidity** | 20 ~ 90% RH (non-condensing) |
| **Power Consumption** | 12w |

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**Connection Diagram**



DVD or Blu-ray Player

Compatible Transmitter

Wireless Router (with Internet Connection)

7m
3m          3m
60°
1.5m
60°

DC 24V    LAN 1    LAN 2    CAT5e/6/7 IN    IR 1 IN    IR 2 OUT    USB

POWER

COAXIAL OUT    HDMI OUT 1    HDMI OUT 2    RS-232 OUT

Digital Audio Output (Optical)

RS-232 Equipped PC or Notebook

Smart TV or Game Console

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